Generative Design Operating System for Construction



Structural Engineers

Months of Design

Excel Spreadsheets

1,000 750,000

Calculations

Grand Lisboa Macau

\$25B 65%

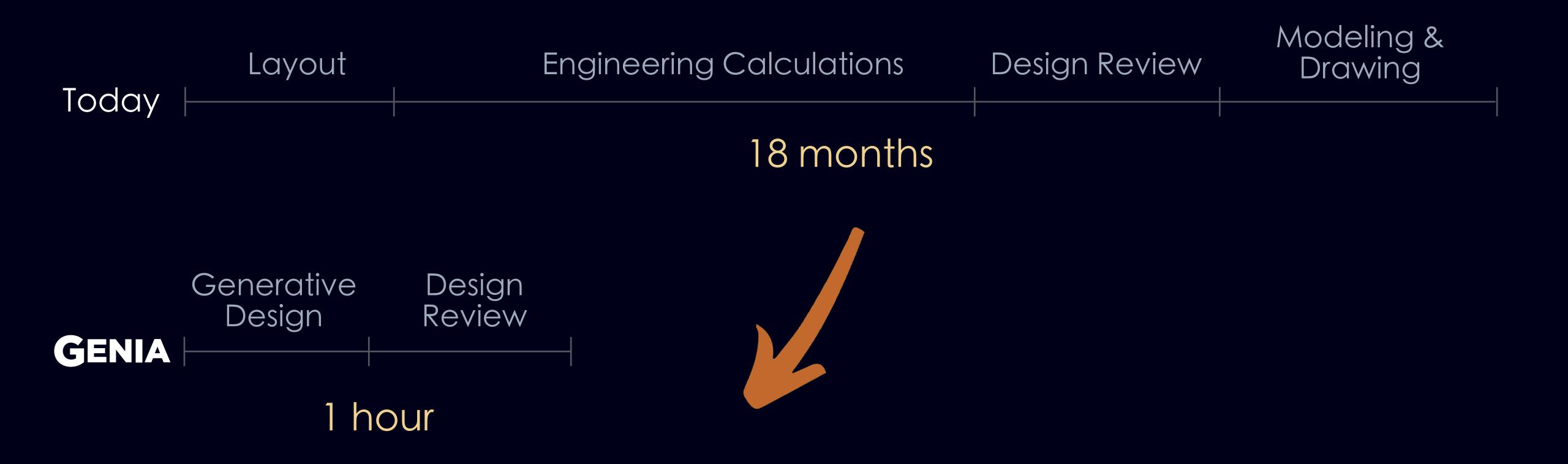
Spent on design Software

Pen & paper, Excel

Permit rejections due to simple human errors

Engineering Design Today: Manual, Repetitive, Error Prone

Structural CoPilot = Doing More with Less!

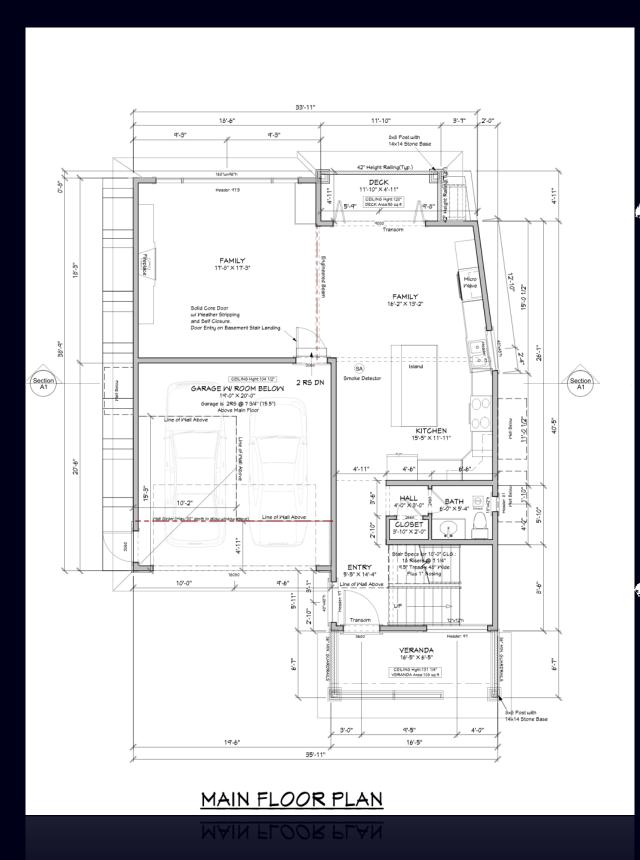


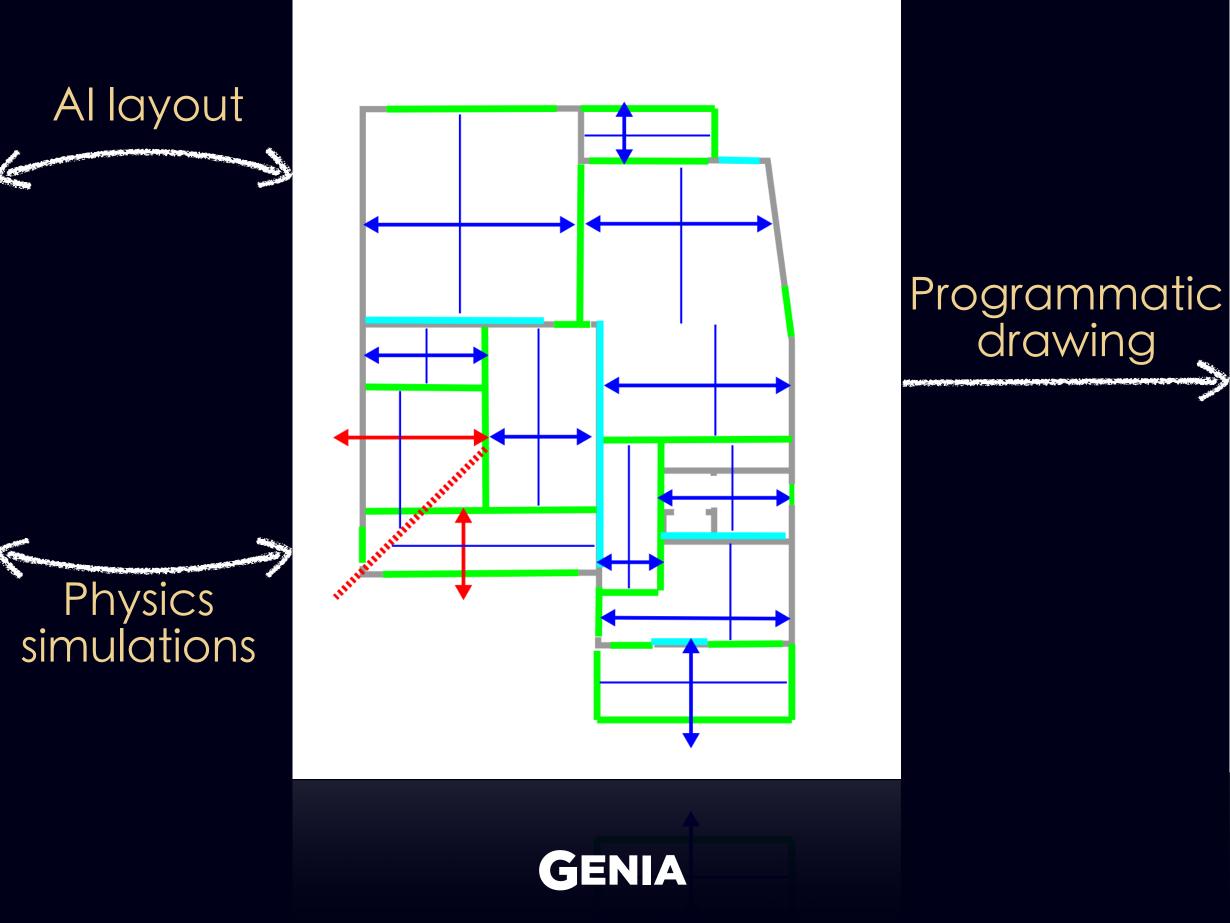
Generate Structural Drawings from Architectural

Architectural Design

Structural Plan

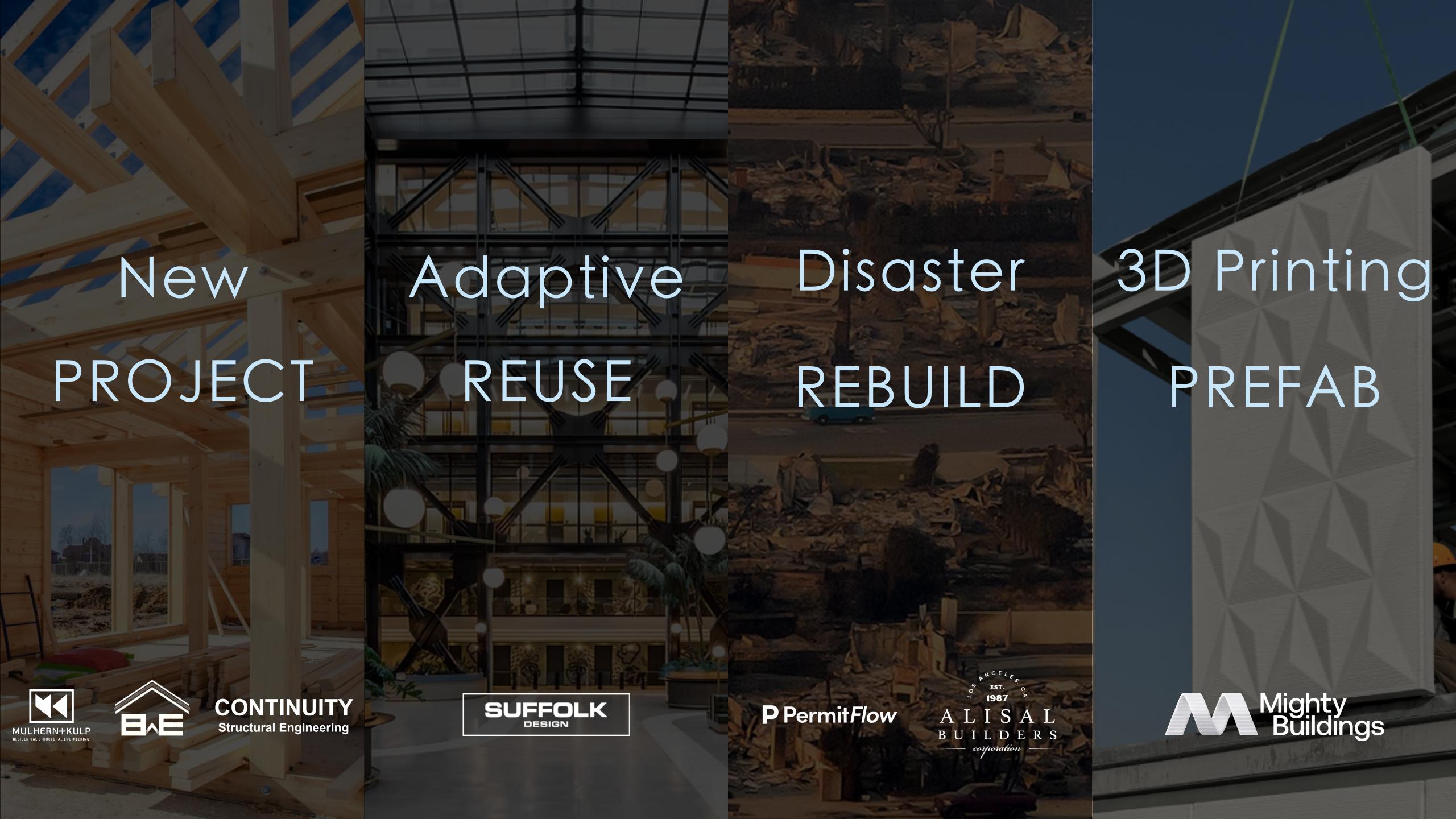
Structural Drawings





MAIN FLOOR PLAN

drawing



Structural CoPilot = Doing More with Less!

10x faster drawing generation

40% less human error

20% material savings

Win more projects, higher prices

GENIA: By Engineers, For Engineers

	GENIA	Higharc	Enji Tech	TANGO builder
Target customer	Engineer	Architect	Engineer	Engineer
Conceptual design			X	
Detailed design		X	X	X
Generative design		AI + Manual	Manual	Template- based
Physics simulation		X	X	X
Calculation sheet		X	X	X
CAD/BIM modeling			X	

Interdisciplinary Founding Team: Structural + Al



Zhihao Zhao

CEO

10 years of product, biz dev, sales & marketing

Proven records of growing Al products from 0 to 1



XREAL







Robin Li

COO

8 years in structural engineering

Designed residential & commercial in Canada & Asia









Dr. Peter Dai

Chief Scientist

10 years in deep generative AI

Publications on ICCV, CVPR
Built LLMs at Amazon











Houtao Wang

CTO

Serial entrepreneur & CTO leading full-stack tech teams

Launched B2B marketplace w/\$300M+GMV



Tencent



GENIA supported by

PI LABS

andreessen. horowitz

AMPLIFY

bUostVC





















P Permit Flow

GENIA

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